## TREATY ON INTERNATIONAL COOPERATION IN THE AREA OF PATENTS

## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(Article 36 and Rule 70 of the PCT)

Applicant's or Agent's File R 41 464.re.sev	f. FOR FURTHER ACTION	See Notification of Transmittal of the International Preliminary Examination Report (Form PCT/IPEA/416).				
International Application No. PCT/EP03/14001 International Filing Date (Month/Date		ay/Year) Priority Date (Month/Day/Year) December 14, 2002				
International Patent Classification (IPC) or National Classification and IPC B21B 1/34						
Applicant SMS DEMAG AKTIENGESELLSCHAFT et al.						
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2. This REPORT consists o	a total of 5 pages, including this cover	sheet.				
☑ This report is also accompanied by ANNEXES, i.e., pages of the description, claims, and/or drawings which have been amended and are the basis for this report and/or pages containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist	of a total of 4 pages.					
This report contains indications relating to the following items:						
	of the report					
II □ Priorit III □ Non-e		ovelty, inventive activity, and commercial viability.				
	f unity of invention.	overty, inventive dottvity, and commercial viability.				
V ⊠ Subst		a(ii) with regard to novelty, inventive activity, and commercial				
	y; citations and explanations supporting	such statement.				
	n documents cited n defects in the international application					
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Data of sub-vission of the no	Date of completion of this report:					
Date of submission of the petition:		Date of completion of this report:				
June 29, 2004		September 29, 2004				
Name and mailing address of the office assigned to perform the		Authorized Officer:				
	uropean Patent Office 9-80298 Munich	Forciniti, M.				
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International File No.: PCT/EP03/14001

I.	Basis	of the	Report
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1.	With regard to the <b>constituent parts</b> of the international application ( <i>replacement pages which were submitted to the application office in compliance with a request according to Article 14 are considered "originally filed" in the context of this report and are not attached to the report, because they do not contain any changes (Rules 70.16 and 70.17)):</i>					
	Specification, pages:					
	1-1	7	as originally filed			
	Cla	ims, Nos.				
	1-1	1	received on September 11, 2004 with correspondence dated September 10, 2004			
	Dra	awings, Pages:				
	2/1 1/1	0-10/10 0	as originally filed received on September 11, 2004 with correspondence dated September 10, 2004			
2.	With respect to the <b>language</b> , all the constituent parts marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise cited under this item.					
	The constituent parts were available or furnished to this Authority in the following language: which is:					
	the language of a translation furnished for the purpose of international search (under Rule 23.1(b)).					
	□ the language of publication of the international application (under Rule 48.3(b)).					
the language of the translation furnished for the purpose of international preliminary examination (under Rule 55.2 and/or Rule 55.3).						
3.	With regard to the <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
	□ contained in the international application in written form.					
	filed together with the international application in computer-readable form.					

☐ furnished subsequently to this Authority in written form.

•		furnished subsequently to this Authority in computer-readable form.				
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the in listing has been furnished		rded in co	computer-readable form is identical to the written	
4.	The amendments have resulted in the cancellation of:					
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets/figures:	:		
5.	5.   This report has been prepared as if (some of) the amendments had not been made, since for specified reasons they are considered by this Authority to go beyond the disclosure as filed 70.2(c)).					
		(Any replacement shee annexed to this report.)	t containing suc	h amendi	dments must be referred to under item 1 and	
6.	Ar	ny additional remarks:				
			_		e 35(2) with respect to novelty, inventive leclarations in support of this determination.	
1.	De	etermination				
	No	ovelty (N)	Yes: No:	Claims Claims		
	In	ventive Activity (IA):	Yes: No:	Claims Claims		
,	Co	mmercial Viability (CV):	Yes: No:	Claims Claims		
2.	Do	cuments and Declarations	S			

See attached page.

INTERNATIONAL PRELIMINARY
EXAMINATION REPORT – ATTACHED PAGE

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Re Point V

Substantiated determination according to Article 35(2) with respect to novelty, inventive activity, and commercial viability; documents and declarations in support of this

determination.

**V.1** The following document is cited:

D1: EP 0 593 398 A

V.2 Document D1 is regarded as the closest prior art with respect to the object of Claims 1

and 3.

Document **D1** discloses a:

Method for hot rolling strip (60), wherein the rolling stock is rolled in a reversing Steckel

rolling stand (10) and is conveyed between two furnace reels (12, 14), which are arranged on

either side of the Steckel rolling stand (10), by means of drivers (Figure 1), which are installed

between each furnace reel (12, 14) and the Steckel rolling stand (10), wherein the rolling stock is

cropped.

Document **D1** further discloses an:

Installation for hot rolling strip (60) with a reversing Steckel rolling stand (10), with a

furnace reel (12, 14) installed on either side of the Steckel rolling stand (10), and with a driver

(Figure 1) installed between each furnace reel (12, 14) and the Steckel rolling stand (10),

especially for carrying out the method in accordance with Claim 1 or Claim 2.

The object of Claims 1 and 3 differs from the method disclosed in D1 and the

installation disclosed in D1, respectively, in that only a single flying shear is used instead of two

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cropping shears. The object of Claims 1 and 3 is thus novel (Art. 33(2) PCT).

Taking document **D1** into consideration, the features of **Claims 1** and **3**, solve, in a way that is not obvious, the problem of minimizing the time loss during cropping in order to avoid cooling even of thin strip. The object of **Claims 1** and **3** is thus based on inventive activity (Art. 33(3) PCT).

- V.3 Dependent Claims 2 and 4 to 11 represent further refinements of the object of Claims 1 and 3, respectively, and thus also satisfy the criteria of the PCT with respect to novelty and invention activity (Article 33(2)(3) PCT).
- V.4 The object of Claims 1 to 11 is undoubtedly commercially viable (Article 33(4) PCT).